MEMORANDUM NO. 3

January 9, 1968

P. B. Akin	W. Kunes	J. Jackson	L. Hazelip
R. W. Richards	F. Hacke	E. G. Johnson	R. Wedler
H. R. Kilpatrick	J. Guyer (2)	T. Collins	G. Vaughan
A. C. Weber	J. Korilko	E. Jaschek	H. Kamper
E. L. Bockstruck	A. H. Becker	J. McCammon	J. Paul
W. A. Peters	H. Meyer	R. Davis	L. Troeckler
H. Hillmer	M. Hardaway	R. Uhrig (2)	R. D. Bay
L. Will	C. Crutcher	R. S. Turner	Files

E. L. BOCKSTRUCK
VICE PRESIDENT - OPERATIONS

CONTRACT WTC-221.00
WORLD TRADE CENTER
THE PORT OF NEW YORK AUTHORITY
LACLEDE CONTRACT 67-J-31801

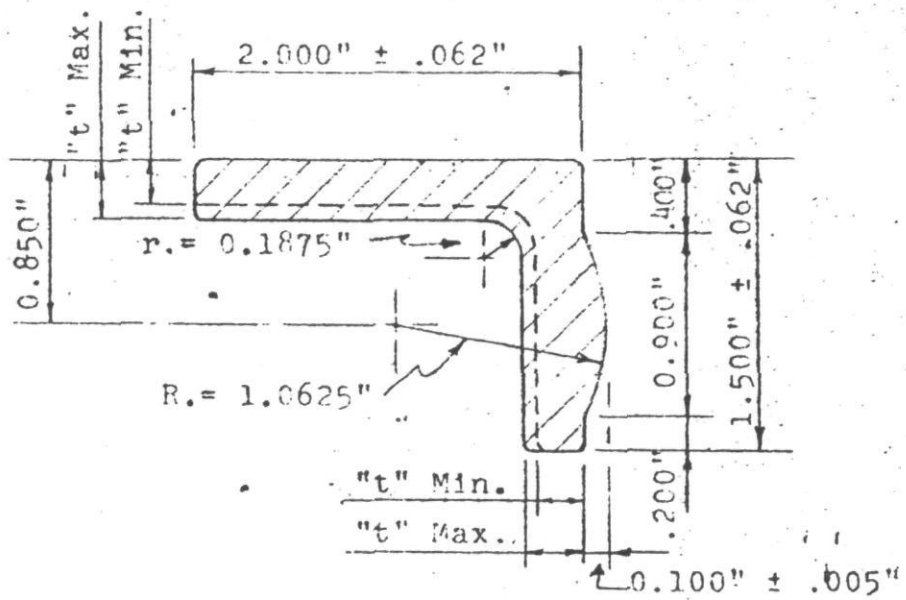
On March 10, 1967 drawing F3-r-302 dated 3/1/67 entitled "Steel Truss Angle Sections (Special Angles Type 15 and 16)" was distributed. Attached herewith is a revision of drawing F3-r-302 revised 1/5/68. The grade of steel has been changed from A-441 to A-242, our normal grade for high strength steel joists.

The March 10, 1967 memorandum also distributed drawing F3-r-303 dated 3/1/67 entitled "Steel Truss Angle Sections (Special Angles Type 20 and 21)" which has not been revised. A copy, however, is provided herewith for your records.

Robert D. Bay

sak

Superseded by Memo #4



HOT ROLLED BULB ANGLE

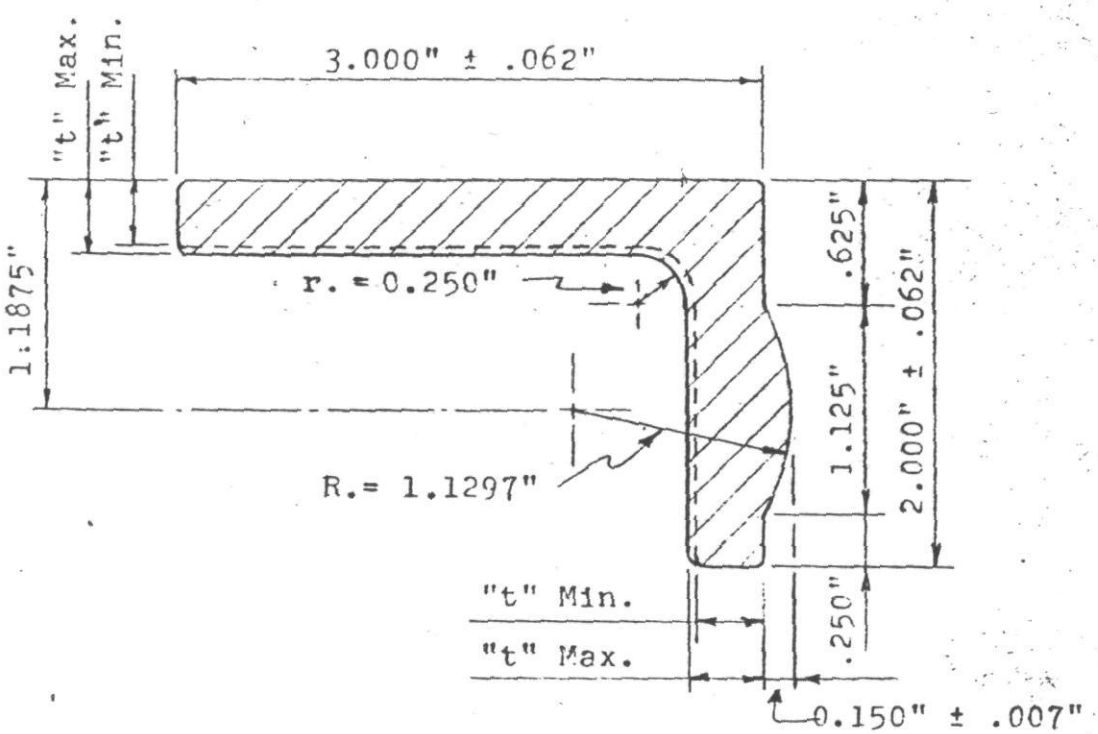
Designation	Angle Size (Inches)	Thickness "t" (Inches)	Weight (Lbs/Ft)	Area (Sq.Ins.)
15	2 x 1⅜	.250 ± .012	2.99	0.881
16	2 x 1½	.310 ± .012	3.59	1.057

SPECIFICATIONS

Tolerance - 2-1/2% by weight
Grade - A-242 50,000 psi minimum yield strength

Chemistry - Carbon .22 Maximum
Manganese .60 Maximum
Squareness of Legs - 90° ±1-1/2°

LACLEDE STEEL COMPANY ST. LOUIS, MISSOURI	CLASS: Standards — Steel Truss	DATE 3-1-67 REV. 1-5-68
Steel Truss Angle Sections (Special Angles Type 15 and 16)		FILE
ENGINEERING DEPARTMENT J.R.P. — APPROVED R.D.B.		DRAWING S-T-302



HOT ROLLED BULB ANGLE

Designation	Angle Size (Inches)	Thickness "t" (Inches)	Weight (Lbs/Ft)	Area (Sq.Ins.)
20	3 x 2	.330 ± .012	5.67	1.669
21	3 x 2	.370 ± .012	6.26	1.841

SPECIFICATIONS

Tolerance - 2-1/2% by weight
Grade - A-36 - 36,000 psi minimum yield strength
Chemistry - Carbon .22 Maximum
Manganese .60 Maximum
Squareness of legs - 90° ± 1-1/2°

LACLEDE STEEL COMPANY ST. LOUIS, MISSOURI	CLASS: Standards Steel Truss	DATE 3-1-67
Steel Truss Angle Sections		REV.
(Special Angles Type 20 and 21)		FILE
ENGINEERING DEPARTMENT JRP APPROVED RDB		DRAWING P3-T-303

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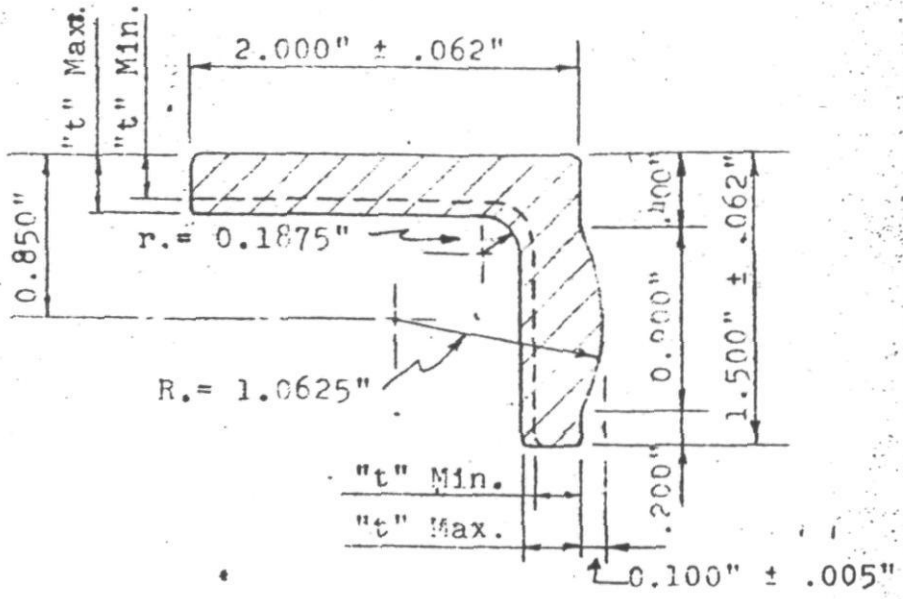

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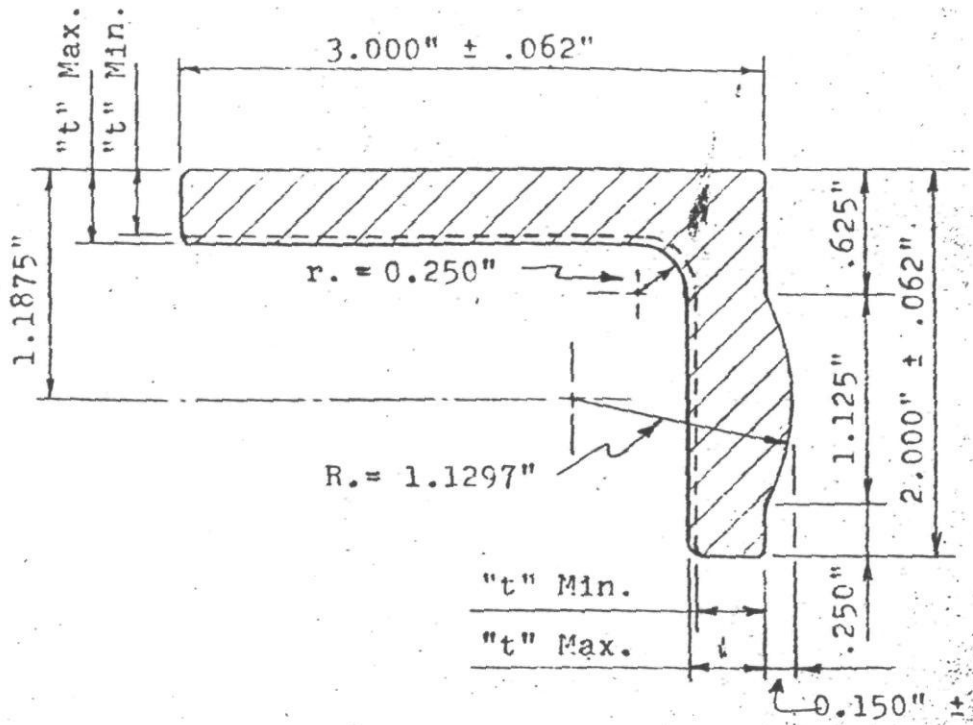
LACLEDE STEEL COMPANY ST. LOUIS, MISSOURI	CLASS: Standards — Steel Truss	DATE 3-1-67 REV. 1-5-68
Steel Truss Angle Sections (Special Angles Type 15 and 16)		FILE
ENGINEERING DEPARTMENT	APPROVED	DRAWN



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Steel Truss Angle Sections (Special Angles Type 20 and 21)		
ENGINEERING DEPARTMENT JRP	APPROVED RDB	